

LIQUI-SET LIQUID SET ACCELERATOR FOR MORTAR

1. Product Name

Liqui-Set liquid set accelerator

2. Manufacturer

Illinois Products Corporation (IPCO)
423 Joseph Drive
South Elgin, IL 60177-2268
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3. Product Description

Liqui-Set chloride-based liquid set-accelerator speeds the chemical reaction between cement and water. This causes mortar to set faster and increases the early strength development. This faster set and its accompanying heat generation help provide protection against frost damage in freezing temperatures. The result is that masons proceed in a normal manner in cold weather with less concern about frozen mortar, thereby increasing production.

Liqui-Set is not an "antifreeze", nor does it appreciably lower the freezing point of mortar or water.

In all temperatures, Liqui-Set also will help anchor "floaters" (dense, non-absorptive units that "swim" or "float" on the mortar bed), including glass block, stone and low-absorptive brick. Liqui-Set allows the mortar to stiffen early, thereby eliminating the problems caused by these masonry units.

Laboratory tests show that Liqui-Set speeds the setting time of mortars considerably. Further testing indicates that Liqui-Set does not contribute to efflorescence or change the color of mortars. Additional tests cover compressive strength and shrinkage. Complete reports are available upon request.

4. Technical Data

- Material: Chloride-based liquid mortar accelerator
- Packaging: 5-gallon pails or 55 gallon drums

MSDS available upon request

5. Installation

Liqui-Set is added to the mixing water prior to the addition of portland and/or masonry cement and sand. Dilute Liqui-Set completely before adding dry materials. Mixing instructions are as follows:

Cold Weather between 15° and 32°

For portland cement-lime mortars:
Use two (2) quarts of Liqui-Set with each bag of portland cement
For masonry cements:
Use one (1) quart of Liqui-Set with each bag of masonry cement

Temperatures above 32° and floaters in warm weather

For portland cement-lime mortars:
Use up to two (2) quarts of Liqui-Set for each bag of portland cement

For masonry cements:

Use up to one (1) quart of Liqui-Set with each bag of masonry cement

Please contact the manufacturer for mixing instructions as it relates to preblended mortars.

In all temperatures, the exact quantity of Liqui-Set can be adjusted slightly to suit preferences of the user as well as to adjust for ambient temperature.

6. Availability and Cost

All Illinois Products Corporation products and prices are available through a nationwide network of masonry and building supply distributors

7. Warranty

The recommendations and properties attributed to the products are based upon what is believed to be reliable information. Illinois Products Corporation warrants materials to be of good quality and will replace unused material proven to be defective. No expressed or implied warranty of installed material is made because satisfactory results depend not only on product quality but also upon factors that are beyond IPCO's control

Even though mortar with Liqui-Set is better protected from the effects of cold weather than mortar without the benefit of acceleration, the use of Liqui-Set does not eliminate the need for common sense, good construction practice, or standard winter precautions. Liqui-Set is not recommended for use with structurally reinforced masonry, nor when the structural integrity of the wall depends on wire reinforcing or wall ties.

If a non-chloride mortar set accelerator is desired, IPCO's Hard-N-Fast chloride-free set accelerator, in liquid or powder, should be used.

8. Maintenance

No maintenance is required after proper installation.

9. Technical Services

Contact the manufacturer for any required technical services. IPCO Material Safety Data Sheets should be read and understood by all personnel before using the products.

10. Filing Systems

Product information is available from the manufacturer in the following formats:

- Complete IPCO product line catalog in printed and CD formats
- Online access to all data sheets at: www.illinoisproducts.com



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